→ PATENT COOPERATION → ATY

From the	INTERI	NATIONAL	BUREAL
----------	--------	----------	--------

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

To:

Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231 ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year)
30 March 2000 (30.03.00)
in its capacity a

in its capacity as elected Office

International application No. PCT/GB99/02691

International filing date (day/month/year) 16 August 1999 (16.08.99) Applicant's or agent's file reference RSJ05875WO

Priority date (day/month/year)
18 August 1998 (18.08.98)

Applicant

KNIGHT, Richard, John et al

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	10 February 2000 (10.02.00)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).
,	

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland **Authorized officer**

Jean-Marc Vivet

Telephone No.: (41-22) 338.83.38

Englimita No - (41 22) 740 14 35

Copy for the Elected Office (EO/US)

ATENT COOPERATION TREATY

	From th	e INTERNATIONAL BU	REAU
PCT	To:		
NOTIFICATION OF THE RECORDING OF A CHANGE	GILL	JENNINGS & EVERY	
	Broad	dgate House	
(PCT Rule 92bis.1 and Administrative Instructions, Section 422)		on Street on EC2M 7LH	
Administrative instructions, coests	ROYA	AUME-UNI	
Date of mailing (day/month/year)			
01 December 2000 (01.12.00)			
Applicant's or agent's file reference RSJ05875WO		IMPORTANT NOTIF	FICATION
International application No.		nal filing date (day/month/ye	ar)
PCT/GB99/02691	16 A	.ugust,1999 (16.08.99)	
The following indications appeared on record concerning:			
X the applicant the inventor	the agen	the commo	n representative
Name and Address		State of Nationality	State of Residence GB
MADGE NETWORKS LIMITED		GB Telephone No.	GB
100 Lodge Lane Chalfont St. Giles Bucks HP8 4AH		, coopiicii c	
United Kingdom		Facsimile No.	
		Teleprinter No.	
2. The International Bureau hereby notifies the applicant that the	ne following	change has been recorded of	concerning:
the person the name X the add		the nationality	the residence
Name and Address		State of Nationality GB	State of Residence GB
MADGE NETWORKS LIMITED Wexham Springs		Telephone No.	
Framewood Road Wexham, Slough SL3 6PJ			
United Kingdom		Facsimile No.	
		Teleprinter No.	
	·		
3. Further observations, if necessary:			
	•		
4. A copy of this notification has been sent to:			
X the receiving Office		the designated Offices	concerned
the International Searching Authority		X the elected Offices con	cerned
the International Preliminary Examining Authority		other:	
	Authorize	d officer	
The International Bureau of WIPO 34, chemin des Colombettes		I. Britel	

1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

Telephone No.: (41-22) 338.83.38

ᲘᲘՉ**Ნ0**70*8*5

በበጓደበ5ጓፈጸ

Copy for the Elected Office (EO/US)

PATENT COOPERATION TREATY

	From the INTERNATIONAL BUREAU
PCT	То:
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year)	FINNIE, Peter, J. Gill Jennings & Every Broadgate House 7 Eldon Street London EC2M 7LH ROYAUME-UNI
30 January 2001 (30.01.01)	
Applicant's or agent's file reference RSJ05875WO	IMPORTANT NOTIFICATION
International application No. PCT/GB99/02691	International filing date (day/month/year) 16 August 1999 (16.08.99)
The following indications appeared on record concerning: the applicant	X the agent the common representative
Name and Address GILL JENNINGS & EVERY	State of Nationality State of Residence
Broadgate House 7 Eldon Street London EC2M 7LH	Telephone No. +44 171 377 1377
United Kingdom	Facsimile No. +44 171 377 1310
	Teleprinter No.
The International Bureau hereby notifies the applicant that the the person The person The International Bureau hereby notifies the applicant that the additional bureau hereby notifies the applicant that the person	1 {
Name and Address	State of Nationality State of Residence
FINNIE, Peter, J. Gill Jennings & Every Broadgate House 7 Eldon Street	Telephone No. +44 20 73 77 1377
London EC2M 7LH United Kingdom	Facsimile No. +44 20 73 77 1310
	Teleprinter No.
3. Further observations, if necessary:	
4. A copy of this notification has been sent to:	
X the receiving Office	the designated Offices concerned
the International Searching Authority the International Preliminary Examining Authority	X the elected Offices concerned other:
Life international Frenininary Examining Actionty	
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer R. Raissi
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38



PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7: H04L 12/56, 12/44

(11) International Publication Number:

WO 00/11841

A1

(43) International Publication Date:

2 March 2000 (02.03.00)

(21) International Application Number:

PCT/GB99/02691

(22) International Filing Date:

16 August 1999 (16.08.99)

(30) Priority Data:

9818022.7 9822113.8 18 August 1998 (18.08.98) GB 9 October 1998 (09.10.98)

GR

Published

With international search report.

(81) Designated States: US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,

(71) Applicant (for all designated States except US): MADGE NET-WORKS LIMITED [GB/GB]; 100 Lodge Lane, Chalfont St. Giles, Bucks HP8 4AH (GB).

(72) Inventors; and

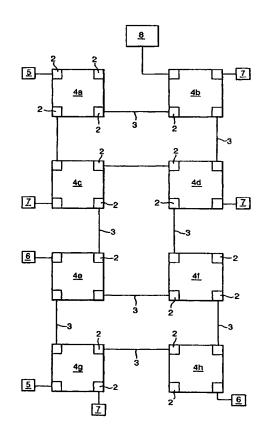
(75) Inventors/Applicants (for US only): KNIGHT, Richard, John [GB/GB]; 5 Ellery Rise, Frieth, Nr Henley-on-Thames, Oxon RG9 6PH (GB). COLEMAN, Trevor, John [GB/GB]; 16 Stanley Hill Avenue, Amersham, Bucks HP7 9BD (GB).

(74) Agent: GILL JENNINGS & EVERY; Broadgate House, 7 Eldon Street, London EC2M 7LH (GB).

(54) Title: METHOD AND SYSTEM FOR PRIORITISED CONGESTION CONTROL IN A SWITCHING HUB

(57) Abstract

The present invention relates to a communications network for transferring data in accordance with a transfer priority number. The network has a number of switching nodes (4) which transfer data between end stations (5, 6, 7) coupled to the network. Each switching node (4) has a store (24) for storing data prior to transfer, a monitor for monitoring the volume of data being transferred through the switching node, a comparator for comparing the volume of data to a predetermined threshold, and a signal generator for generating a congestion signal if the respective volume of traffic exceeds the predetermined threshold. In this case the adjacent switching nodes (4) and/or end stations (5, 6, 7) respond to the congestion signal to temporarily store at least some of the data to be transferred via the respective switching node (4). The data which is stored is selected based upon its priority number.



FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
AT	Austria	FR	France	LU	Luxembourg	SN	Senegal
AU	Australia	GA	Gabon	LV	Latvia	SZ	Swaziland
AZ	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad
BA	Bosnia and Herzegovina	GE	Georgia	MD	Republic of Moldova	TG	Togo
BB	Barbados	GH	Ghana	MG	Madagascar	ТJ	Tajikistan
BE	Belgium	GN	Guinea	MK	The former Yugoslav	TM	Turkmenistan
BF	Burkina Faso	GR	Greece		Republic of Macedonia	TR	Turkey
BG	Bulgaria	HU	Hungary	ML	Mali	TT	Trinidad and Tobago
BJ	Benin	IE	l'reland	MN	Mongolia	UA	Ukraine
BR	Brazil	IL	Israel	MR	Mauritania	UG	Uganda
BY	Belarus	IS	Iceland	MW	Malawi	US	United States of America
CA	Canada	TI	Italy	MX	Mexico	UZ	Uzbekistan
CF	Central African Republic	JP	Japan	NE	Niger	VN	Viet Nam
CG	Congo	KE	Kenya	NL	Netherlands	YU	Yugoslavia
СН	Switzerland	KG	Kyrgyzstan	NO	Norway	zw	Zimbabwe
CI	Côte d'Ivoire	KP	Democratic People's	NZ	New Zealand		
CM	Cameroon		Republic of Korea	PL	Poland		
CN	China	KR	Republic of Korea	PT	Portugal		
CU	Cuba	KZ	Kazakstan	RO	Romania		
CZ	Czech Republic	LC	Saint Lucia	RU	Russian Federation		
DE	Germany	LI	Liechtenstein	SD	Sudan		
DK	Denmark	LK	Sri Lanka	SE	Sweden		
EE	Estonia	LR	Liberia	SG	Singapore		





(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	(Form PCT/ISA/2	of Transmittal of International Search Report 220) as well as, where applicable, Item 5 below.
RSJ05875W0 International application No.	ACTION	
	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/GB 99/02691	16/08/1999	18/08/1998
Applicant		
 MADGE NETWORKS LIMITED et	1	
MANGE HELMONYS FILITIES CO	aı.	
This international Search Report has been according to Article 18. A copy is being tra	on prepared by this international Searching Authoransmitted to the international Bureau.	hority and is transmitted to the applicant
_	of a total of sheets. y a copy of each prior art document cited in this	report.
Basis of the report		
a. With regard to the language, the language in which it was filed, uni	international search was carried out on the bas less otherwise indicated under this item.	ils of the International application in the
the international search w Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of th	ne international application furnished to this
was carried out on the basis of the	e sequence listing :	nternational application, the international search
	onal application in written form. emational application in computer readable form	
	emational application in computer readable form this Authority in written form.	.
	o this Authority in computer readble form.	
the statement that the sub	bsequently furnished written sequence listing do as filed has been furnished.	oes not go beyond the disclosure in the
		в identical to the written sequence listing has been
2. Certain claims were four	ind unsearchable (See Box I).	
3. Unity of invention is lack	king (see Box II).	
4. With regard to the title,		
the text is approved as suf	• • • • • • • • • • • • • • • • • • • •	
	thed by this Authority to read as follows:	
METHOD AND SYSIEM FUR	PRIORITISED CONGESTION CONT	ROL IN A SWITCHING HUB
5. With regard to the abstract,		
5. With regard to the abstract, The text is approved as suf	hmitted by the englicent	
the text has been establish	hed, according to Rule 38.2(b), by this Authority adate of mailing of this international search repo	y as it appears in Box III. The applicant may, ort, submit comments to this Authority.
6. The figure of the drawings to be public		1
as suggested by the applic	•	None of the figures.
because the applicant falle	•	_
because this figure better	characterizes the invention.	·



International	Application	No
PCT/GB	99/0269) 1

	PCT/GB 99/02691			
	·	PCT/GB	99/02691	
A CLASS	HPICATION OF SUBJECT MATTER H04L12/56 H04L12/44		-	
According t	to International Patent Classification (IPC) or to both national d	assification and IPC		
	SEARCHED			
IPC 7	ocumentation searched (classification system followed by class H04L	istification symbolis)		
Documenta	ation searched other than minimum documentation to the exten	t that such documents are included in the field	s searched	
Electronic o	data base consulted during the International search (name of d	lata base and, where practical, search terms u	sed)	
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ 	ENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of	the relevant passages	Relevant to claim No.	
Y	MACLEOD B: "GIGABIT ETHERNET REPEATERS" ANNUAL REVIEW OF COMMUNICATION		1-15	
	XP000720916	ina 20 mana		
	page 504, left-hand column, l 505, right-hand column, line 9,11		·	
Y	WO 97 03549 A (CALDARA STEPHEI NEXION INC (US); HAUSER STEPHI 6 February 1997 (1997-02-06)		1–15	
	abstract page 4, line 20 -page 9, line page 10, line 5 -page 11, line page 20, line 23 -page 24, lin	e 33		
	claims 2,3	ie /		
	,			
		-/		
χ Furt	ner documents are listed in the continuation of box C.	Patent family members are list	ed in annex.	
° Special ca	tegories of cited documents :	"T" later document published after the	nternational filing date	
"A" docume	ent defining the general state of the art which is not ered to be of particular relevance	or priority date and not in conflict w cited to understand the principle or	fth the application but	
	locument but published on or after the International	invention "X" document of particular relevance; th	e claimed invention	
"L" docume	are nt which may throw doubts on priority claim(s) or is cited to establish the publication date of another	cannot be considered novel or can involve an inventive step when the	not be considered to document is taken alone	
citation	n or other special reason (as specified)	"Y" document of particular relevance; the cannot be considered to involve an	inventive step when the	
other n		document is combined with one or ments, such combination being ob- in the art.		
	nt published prior to the international filing date but an the priority date claimed	"&" document member of the same pate	ent family	
Date of the a	actual completion of the international search	Date of mailing of the international	search report	
10	0 November 1999	18/11/1999		

Form PCT/ISA/210 (second sheet) (July 1992)

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentiaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo ni, Fax: (+31–70) 340–3016

Authorized officer

Karavassilis, N



T/GB 99/02691

1	EP 0 712 220 A (IBM) 15 May 1996 (1996-05-15) abstract	Relevant to claim No.
	page 2, line 30 -page 3, line 21 page 4, line 8 -page 5, line 41	
·		·
		·

mation on patent family members

enternational Application No CT/GB 99/02691

		T			1
Patent document cited in search report	nt	Publication date		Patent family member(s)	Publication date
W0 9703549	Α	06-02-1997	AU	6500796 A	18-02-1997
	- •		AU	6500896 A	18-02-1997
			AU	6500996 A	18-02-1997
			AU	6501096 A	18-02-1997
			AU	6501496 A	18-02-1997
•			AU	6501696 A	18-02-1997
			AU	6501796 A	18-02-1997
			AU	6501996 A	18-02-1997
		•	AU	6502096 A	18-02-1997
		•	AU	6502496 A	18-02-1997
			AU	6502596 A	18-02-1997
			AU	6502696 A	18-02-1997
			AU	6502796 A	18-02-1997
			AU	6503196 A	18-02-1997
			AU	6503296 A	18-02-1997
			AU	6503396 A	18-02-1997
			AU	6503496 A	18-02-1997
			AU	6503596 A	18-02-1997
			AU	6503696 A	18-02-1997
			AU	6503796 A	18-02-1997
			AU AU	6549196 A	18-02-1997
			AU	6549296 A	18-02-1997
			AU Au	6648496 A 6648796 A	18-02-1997 18-02-1997
			AU	6712496 A	18-02-1997
			AU	6712596 A	18-02-1997
			AU	6761896 A	18-02-1997
		•	AU	6762096 A	18-02-1997
			EP	0845181 A	03-06-1998
			ĒΡ	0839420 A	06-05-1998
			ËP	0839419 A	06-05-1998
			EP	0872086 A	21-10-1998
			ËP	0839421 A	06-05-1998
			EP	0839422 A	06-05-1998
			JP	11510323 T	07-09-1999
			JP	11510324 T	07-09-1999
			JP	11510003 T	31-08-1999
			JP	11510004 T	31-08-1999
			JP	11510005 T	31-08-1999
		•	JP	11510006 T	31-08-1999
			JP	11510007 T	31-08-1999
			JP	11510008 T	31-08-1999
			JP	11510009 T	31-08-1999
			JP	11510010 T	31-08-1999
			JP	11510011 T	31-08-1999
			JP	11510012 T	31-08-1999
			JP	11510013 T	31-08-1999
			JP	11510014 T	31-08-1999
		•	JP	11510327 T	07-09-1999
			JP	11510328 T	07-09-1999
EP 0712220	Α	15-05-1996	JP	8214004 A	20-08-1996
			US	5787071 A	28-07-1998